

105-10-10130

Stream 105-10-13

Latitude $56^{\circ}07'45''$ Longitude $133^{\circ}57'46''$
 $54''$ $42''$

This stream enters Sumner Strait about 1.4 miles north of June marker and 1.7 miles southwest of Mack marker.

The stream, about 2.8 miles long, consists of two large tributaries both of which drain relatively large plateaus on the peninsula separating Affleck Canal and Sumner Strait.

The lower intertidal (200 yards) bottom substrates are chiefly composed of loose .5"-2" gravels and provide excellent spawning habitat (Photo #34).



Photo #34: Lower intertidal area of Stream 105-10-13.

The upper intertidal area (100 yards) displays cobble substrates which provide relatively poor spawning habitat (20 percent utilization). From the intertidal area to the confluence of the tributaries (.15 mile upstream), the substrate is predominantly cobble and 1"-4" gravels. The best upstream spawning areas are located in the lower 200 yards of this section of stream and the first 300 yards of tributary 01. Photo #35 depicts the "typical" habitat present in the lower .15 mile.



Photo #35: "Typical" habitat lower .15 mile of Stream 105-10-13.

Spawning potential decreases sharply in tributary 01 above 300 yards as the substrates grade into cobble. There is poor spawning habitat in tributary 02 as the bottom substrates are chiefly composed of bedrock as depicted in Photo #36.



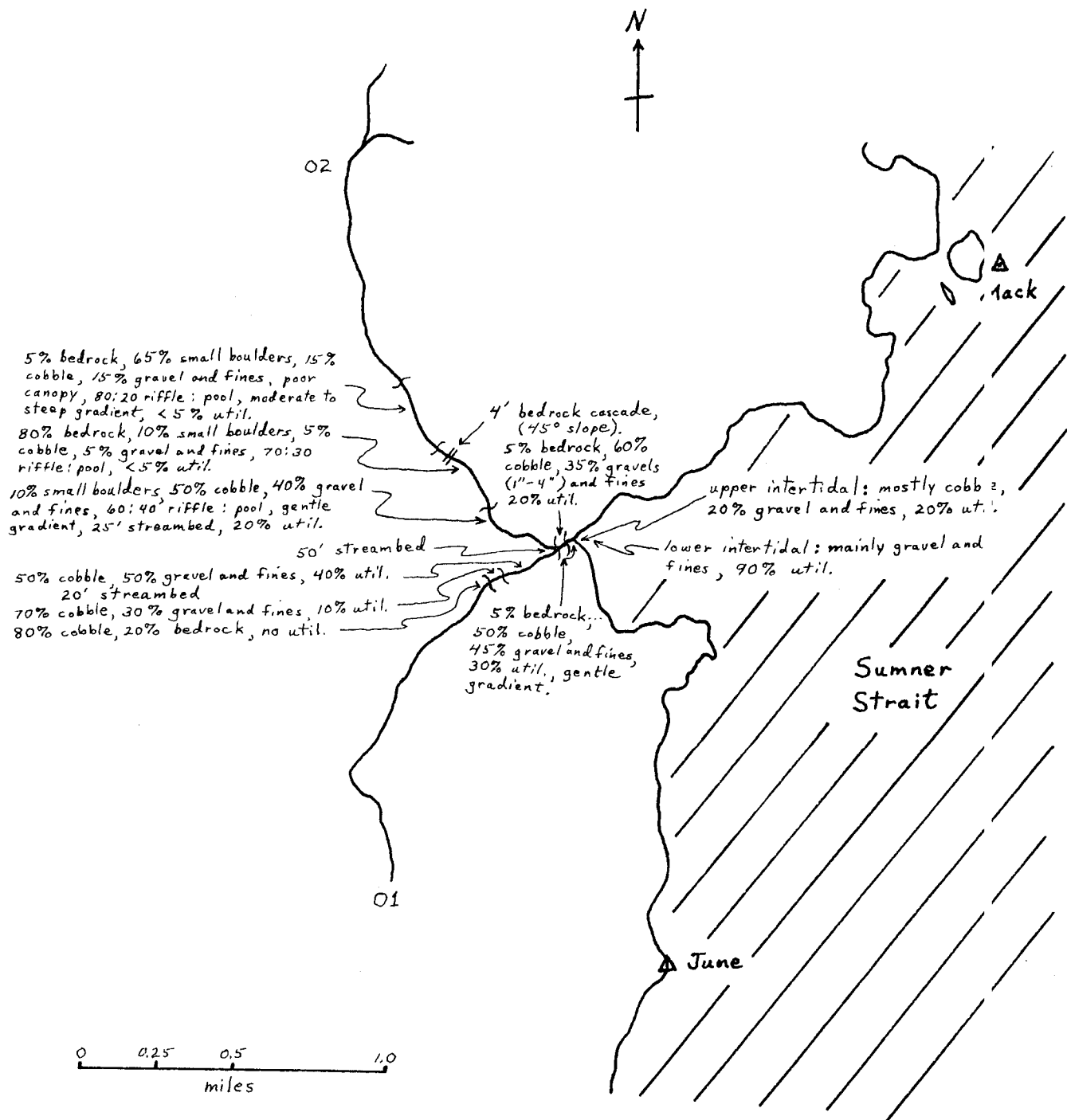
Photo #36: Bedrock substrates displayed in tributary 02.

The entire stream system has a relatively open canopy and lacks cover for fry. The quickly increasing gradient in both tributaries limits the amount of rearing habitat. Dry gravel bars and scouring in the lower part of the system indicate seasonal high water levels and flows. Coho fry were not observed above .25 mile upstream in tributary 01 nor above the four-foot partial barrier falls located .45 mile upstream in tributary 02.

No ADF&G escapement data is available for stream 105-10-13.

105-10-10130

Figure 1. Stream 105-10-13



105-10-10145 map: Port Alexander A-1
Stream #AC 1

Latitude $56^{\circ}08'49''$ Longitude $134^{\circ}01'46''$

This stream enters Affleck Canal about .7 mile south-southeast of Dub marker and 1.1 miles north-northeast of Moon marker.

The stream is short, approximately 1.2 miles long, and drains a relatively small plateau on the peninsula separating Affleck Canal and Sumner Strait.

The bottom substrates displayed in the 100-foot-long intertidal area are composed of equal amounts of cobble and 1"-4" gravels which provides good spawning habitat. The upstream spawning habitat is only fair. The bottom substrates are chiefly composed of cobble, small boulder and gravel as depicted in Photo #37.



Photo #37: "Typical" habitat found in lower .2 mile of Stream AC 1.

A 13-foot-high bedrock falls located about .3 mile upstream may be a barrier to fish migration (Photo #38).



Photo #38: 13-foot barrier falls.

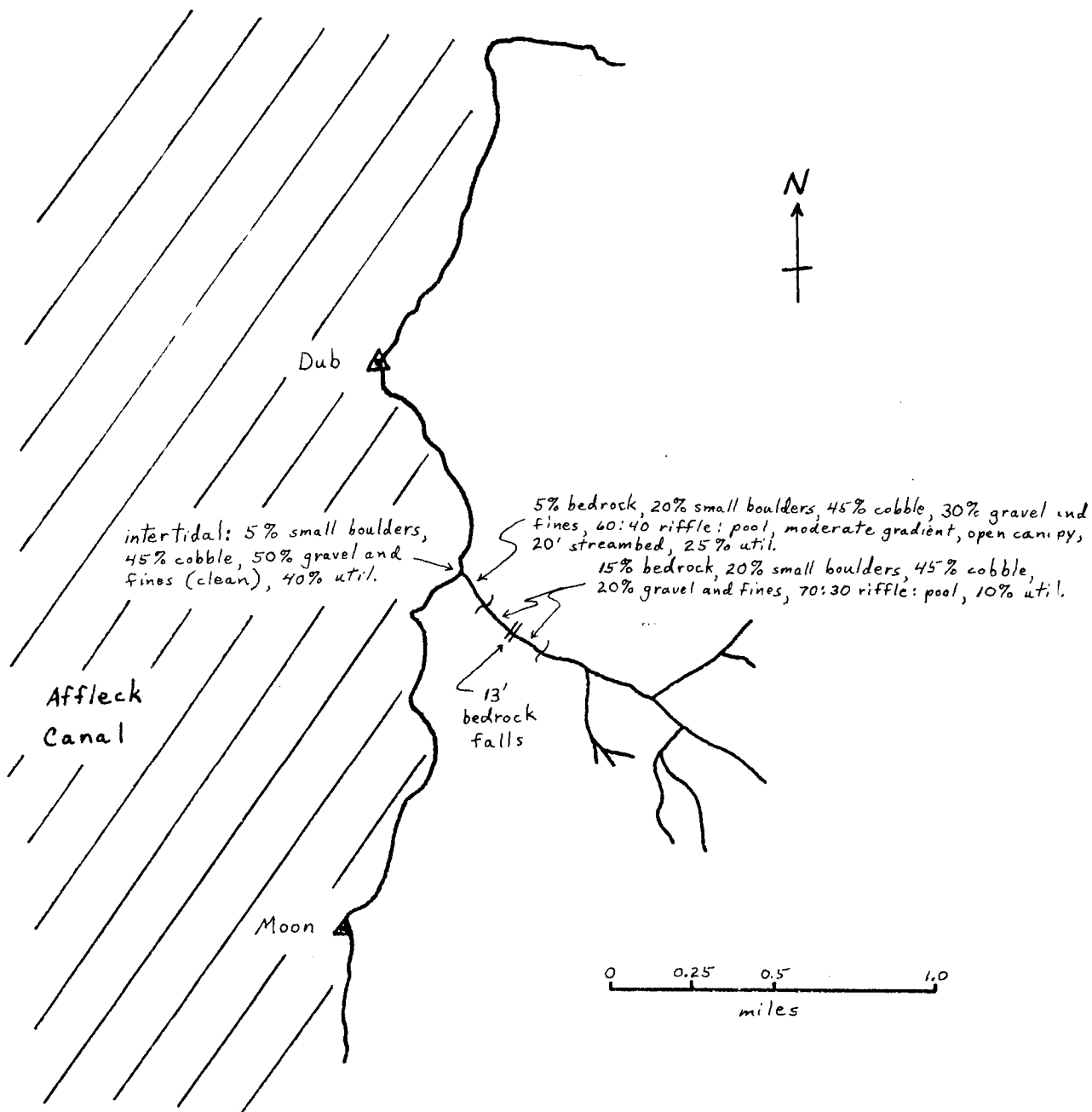
Little spawning habitat was observed above the barrier. Rearing habitat exists in the lower part of the stream with some natural windfall and undercut banks for cover. Coho fry were not observed above .25 mile upstream. A small school of adult pink salmon was observed in Affleck Canal near the mouth of the stream.

No ADF&G escapement data is available for the stream.

Recommendations:

- 1) Recommend including this stream in the ADF&G stream numbering system due to the presence of anadromous salmonids.

Figure 1. Stream AC-1



STREAMS OF THE S.E. KUIU STUDY AREA

17

FREDERICK
SOUND

KUIU
ISLAND

REID
BAY

PORT
BEUCLERC

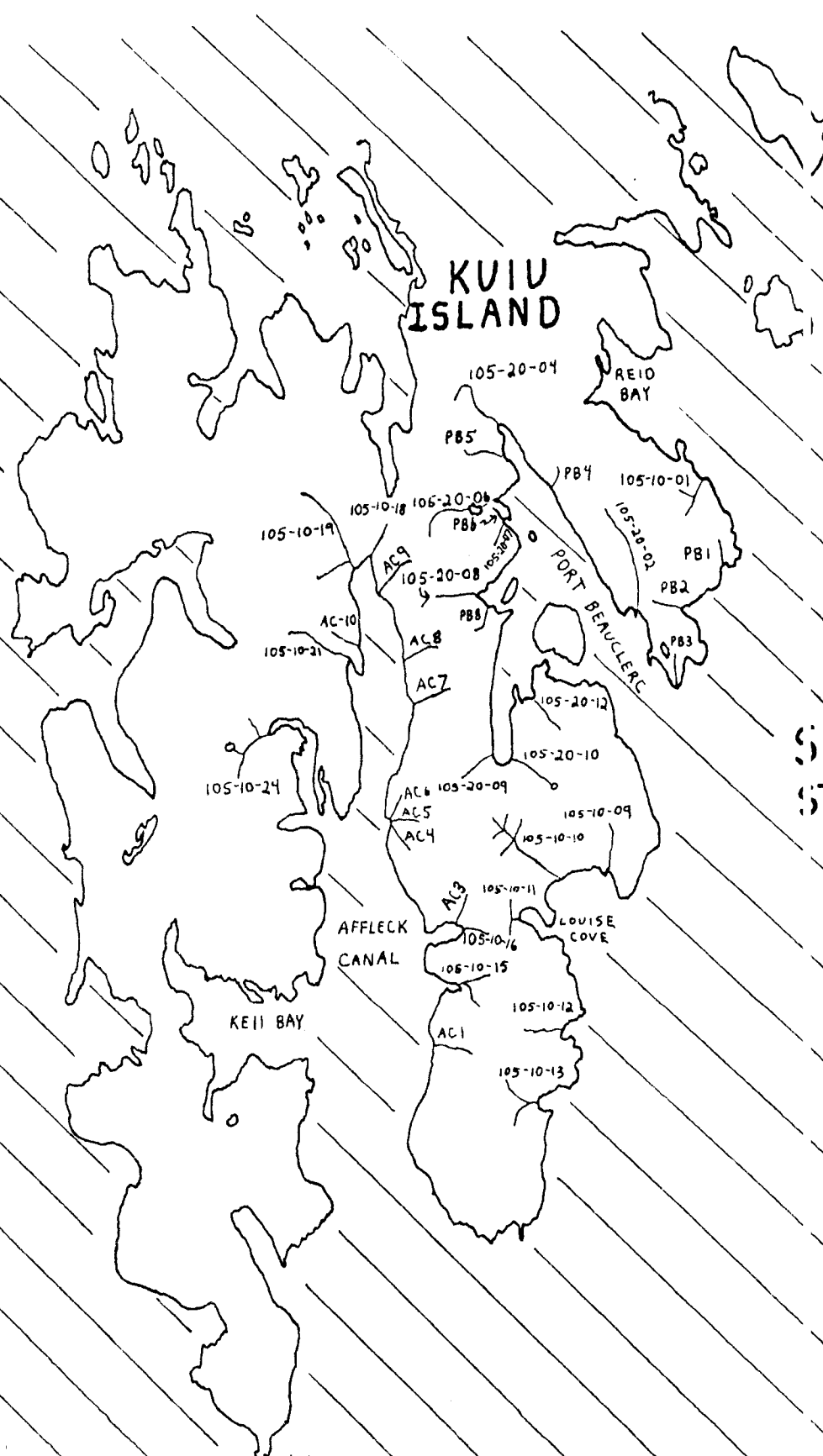
SUMNER
STRAIT

KEII BAY

AFFLECK
CANAL

LOUISE
COVE

Cape Decision



CLARK COUNTY WATERWAY INVESTIGATION

AREA AND STREAM	TYPE AND DISTANCE OF SURVEY	FISH SPECIES AND MATURITY	STREAM QUALITY			STREAM		VELOCITY			WATER		MAJOR SUBSTRATE	
			Spawning Inter-tidal	Upstream	Rearing	Gradient	Mean width (ft.)	Mean depth (ft.)	Inter-tidal	Upstream	Color	Temp. °C	Inter-tidal	Upstream
105-20-12	.5 mile foot	adult pink, cutthroat trout	excellent	good/excellent	good	gentle	20-40' x 15' x 3"	channel	5 cfs		clear	10°	1" gravels	1" gravels
105-10-09	.4 mile foot	cutthroat trout	fair	fair/poor	fair	moderate	50' channel x 20' x 4"	channel	10 cfs		clear	14.5°	cobble 1-3" boulder gravels	cobble boulder
Kuiu Is. (Summer Strait) 105-10-10	4 mile foot	adult pink salmon, coho fry, trout	very good	good to very good	good to very good	gentle	50' channel x 30' x 4"	channel	12-15cfs		clear	11.5°	gravel and fines	cobble and gravel
1050-10-11	.6 mile foot	cutthroat trout, coho fry	fair/poor	good	good	gentle	20' channel x 10' x 3"	channel	4 cfs		clear	11°	cobble gravel	gravel
Kuiu Is. (Summer Strait) 105-10-12	0.25 mile foot	salmonid fry (trout fry)	poor	poor	fair/good	mostly flat	20' channel x 20' x 1'	channel	6 cfs		lt. tan	16°	small boulders and organic	cobble debris
Kuiu Is. (Summer Strait) 105-10-13	1.4 mile foot	coho fry, trout	lower excellent, upper poor	poor/fair	poor/fair	gentle becoming mod-steep in 0.6 mi	50' channel below forks 10' x 3"	channel	10 cfs		clear	12.5°	lower gravel upper cobble	cobble

STREAM HABITAT INVENTORY

AREA AND STREAM	TYPE AND DISTANCE OF SURVEY	FISH SPECIES AND MATURITY	STREAM QUALITY			STREAM		VELOCITY		WATER		MAJOR SUBSTRATE		
			Spanning Inter- tidal	Up- stream	Rearing	Gradient	Mean width (ft.)	Mean depth (ft.)	Inter- tidal	Upstream	Color	Temp. °C	Inter- tidal	Upstream
Affleck Canal AC #1	0.3 mile foot	coho fry, trout	good	poor/ fair	fair	gentle/ moderate	20' channel 15' x 3"		5-7cfs		clear	12.5°	cobble and gravel	small boulder and cobble
Affleck Canal 105-10-15	0.6 mile foot	coho fry, trout	excel- lent	good/ very good	good/ very good	gentle/ moderate	30' channel below fork 15' x 4"		7 cfs		clear	12.5°	gravel and fines	cobble and gravel
105-10-16	.5 mile	coho fry, adult pink and chums	good	good	excel- lent	gentle	20' channel 10' x 3"		4 cfs		clear	12°	1-4" gravel	1-3" gravel
Affleck Canal AC-3	0.5 mile foot	coho fry, trout	good	fair/ good	fair/ good	moderate	15' channel 12' x 1"		3 cfs		clear	12.5°	gravel and cobble	gravel and cobble